• DE-FE0032010



Prime: C-Crete Technologies





PI: Dr. Rouzbeh Shahsavari



Sub: Trimeric Corporation



(9)

Location: Stafford, TX

DOE: \$250,000

Non-DOE: \$62,500

Total: \$312,500

Objectives

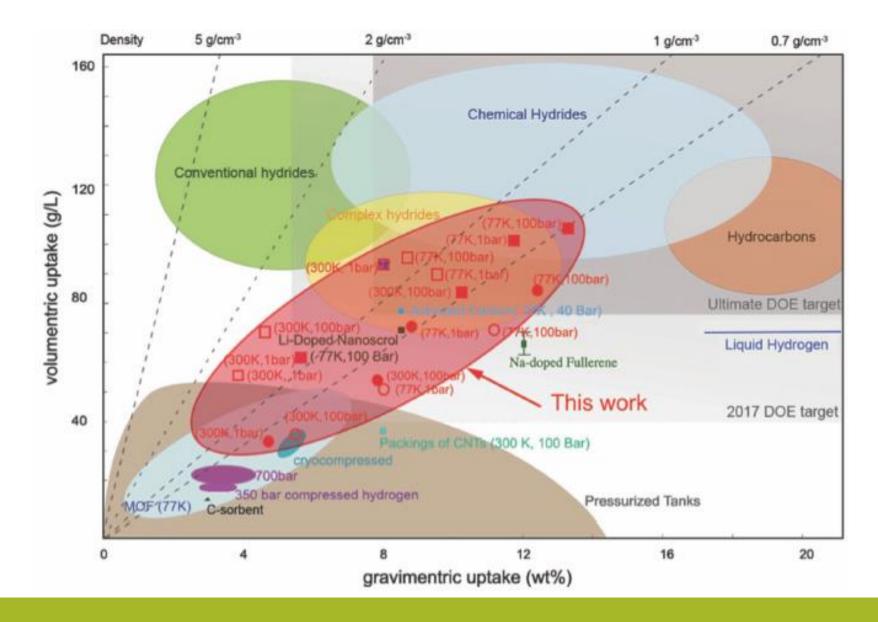
- Phase I: full synthesis control over sorbent and its porestructure, and to fabricate a small module followed by optimization and various structural, chemical and thermal property characterizations.
- Phase II: evaluate the performance of H2 energy storage both at the material and system levels followed by development of conceptual process flow diagram, and unit module and performance models for integration to fossil fuel power plants

Relevance and Outcomes/Impact

- Feasibility of a new class of scalable, low-cost sorbents with an unprecedented balance of capacity-kinetics-thermodynamics for H2 storage and integration to fossil fuel power plants.
- First step toward on-grid H2 power storage.

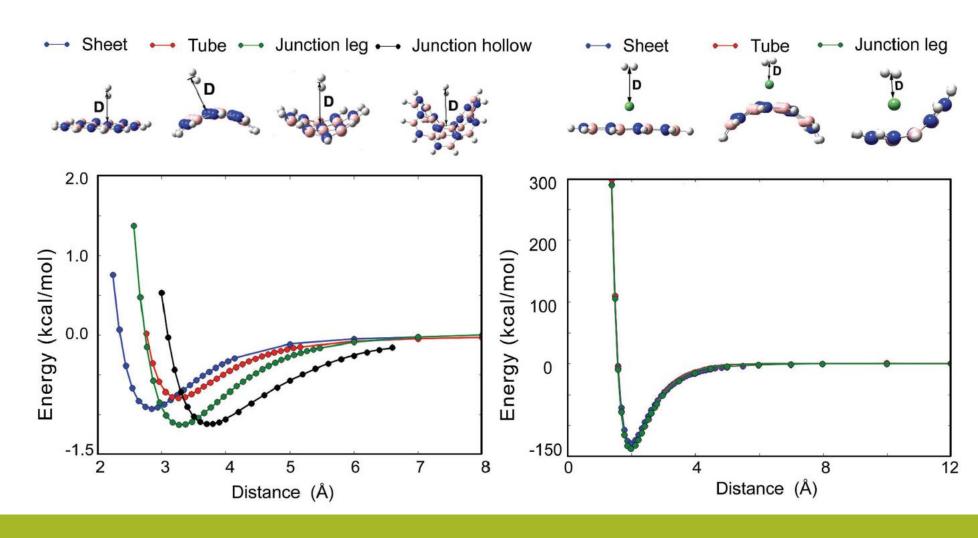
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Background



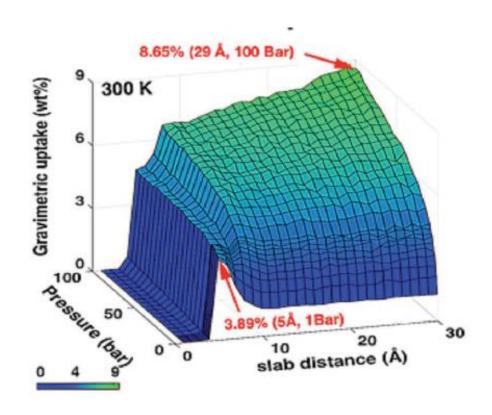
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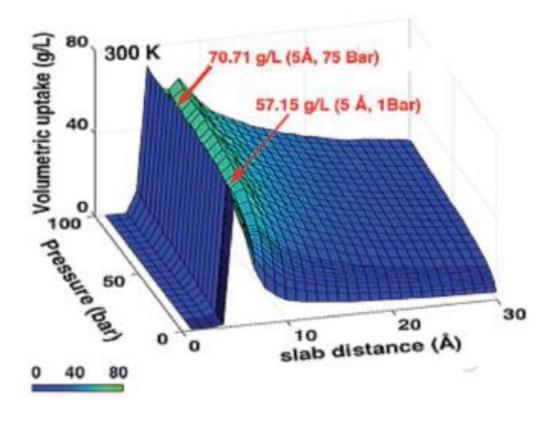
Preliminary Results



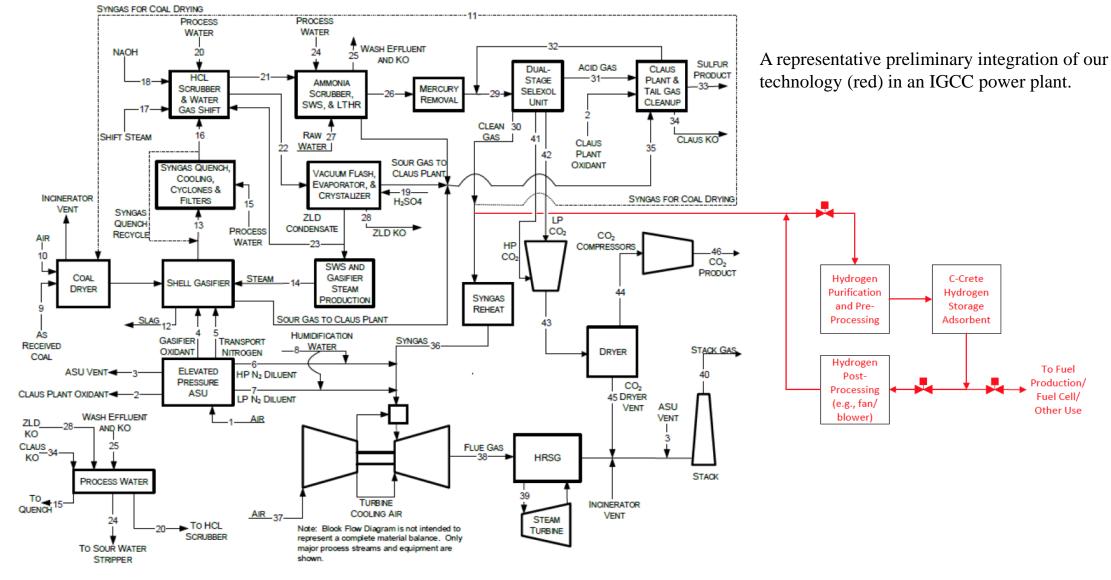
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Preliminary Results





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Thank you